**Agenda:**

1. Silent Do Now
   1. Circle the expression, box the terms, underline the operations
   2. Fill in the blank to translate English into Algebraic Expressions
2. Do Now Review
   1. Explicitly state expectations for Do Now Review
      1. Do Now is itself a review of concepts I expect you to be familiar with
      2. We won’t spend a lot of time here
      3. If you do not understand the concepts studied - don’t be shy about that, come to tutorial
3. New Concept: Simplifying Expressions
   1. Simplify – what does it mean? Why is it helpful?
   2. So when you simplify, you put like pieces together
   3. GEMDAS
4. Individual – then partner practice

G G

E E

MD DM

AS SA

1. Exit Ticket – If you had to give this lesson a new title, what would it be? Why?
2. Homework – GEMDAS practice

**Algebra 1 Name:**

* 1. **Simplifying Expressions Date:**

**Warm Up**

**Circle the correct translation of the English phrase. There may be more than one correct answer!**

1. *Twice the sum of four and a number*
2. *The sum of a number and seven, divided by two*
3. *Five less than half of a number*

**Choose any of the expressions above and describe a real life scenario that could be modeled by the expression.**

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**Algebra 1 Name:**

* 1. **Simplifying Expressions Date:**

**What does it mean to *simplify* something?**

Write down three things you notice about the pictures?

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**How** did Mr. Stiff’s daughters *simplify* their blocks?

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Why might someone want to *simplify* something?

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**BIG IDEA:** We can simplify an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

and following the \_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Rule:** When you simplify an expression, use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**But BE CAREFUL!** Is it **PEMDAS** or **PEDMSA**???

**In-Class Work:**

Simplify the following expressions. For each step, circle what you would do FIRST. When you get to the most simple form, put a **box** around it.

**Examples:**

|  |  |
| --- | --- |
| **9 • (7 – 5) + 3** | **100 ÷ 5 • 2 – 9** |

1) 8 + 7 · 9 5) 12 + 42

2) 35 – (17 – 2) ÷ 5 6) 24 – 9 · 2 + 6 ÷ 3

3) 45 + 3 7) 4(9 – 3) ÷ (8 – 2)

9

4) 12(2 + 7) – 24 ÷ 12 8) 72 − (9 + 22) + 1 − 5

**Algebra 1 Name:**

* 1. **HW Simplifying Expressions – Order of Operations Date:**

**Directions:** Choose **10** on the front and **5** on the back.



